Detection of Estrogen Receptor Alpha in Formalin-Fixed, Paraffin-Embedded Rat Tissue

Reagent and Antibody Information

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
1X Citrate Buffer
DAB Chromagen
Hematoxylin

Blocking Serum: Normal Horse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 008-000-001

Avidin / Biotin Blocking Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # SP-2001

Primary Antibody: Mouse Anti-ER (ER1D5) Antibody
Beckman Coulter, Inc.
Fullerton, CA 92834
www.beckmancoulter.com
1-800-458-5060
Catalog # IM1545
(Lot # 29)

Negative Control Serum: Purified Mouse IgG1 Isotype Control Serum
BD Biosciences
San Jose, CA 95131
www.bdbiosciences.com
1-877-232-8995
Catalog # 557273

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-2001

<u>Label Complex: Peroxidase-Conjugated Streptavidin SS Label</u> Biogenex Laboratories San Ramon, CA 94583

www.biogenex.com 1-800-421-4149 Catalog # HK330-9K

Staining Procedure

Positive Control Tissue: Uterus or mammary gland

Stain Localization: Nuclear

1. Deparaffinize and hydrate slides through the following solutions:

Solution	Repetitions	Time
Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Wash Buffer	2 times	5 minutes

- 2. Quench endogenous peroxidase by placing the slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.

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DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.

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7. Avidin / Biotin	n Blocking Kit		
Lot #	Exp Date	New Kit:	yes / no
Apply avidin b	plock for 15 minutes at room to	emperature.	
Quick rinse in	1X Wash Buffer.		
Apply biotin b	lock for 15 minutes at room te	emperature.	

DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

B. Apply primary antibody at a 1:50 dilution. Incubate for 1 hour at room temperature. Lot # Exp Date
For negative control slides, dilute the protein concentration of the mouse IgG1 serum to match that of the primary antibody, if necessary. Make a 1:50 dilution from this normalized serum, and apply to the slides. Incubate for 1 hour at room temperature. Lot # Date Reconstituted
9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
10. Apply the horse anti-mouse secondary antibody at a 1:1000 dilution. Incubate for 30 minutes at room temperature. Lot # Date Reconstituted
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
12. Apply the Streptavidin SS Label. Incubate for 30 minutes at room temperature. Lot # Exp. Date
13. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
14. Apply the DAB chromogen. Incubate in the dark for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate) Lot # Exp. Date New Kit: yes / no
15. Rinse the slides in tap water 3 minutes.
16. Counterstain with Harris Hematoxylin for 20 seconds.
17. Rinse the slides in tap water until water is clear.
18. Gently agitate slides in 1X Wash Buffer until the tissues turn blue.

Solutions	Repetitions	Time
95% Ethanol	1 time	3 minutes
100% Ethanol	3 times	3 minutes
Xylene	2 times	5 minutes

19. Dehydrate through the following solutions:

20. Coverslip